

Title (en)

NEW FOAM WITH IMPROVED EXPANSION BEHAVIOUR WHEN USED IN THIN LAYERS

Title (de)

NEUER SCHAUM MIT VERBESSERTEM AUSDEHNUNGSVERHALTEN BEI VERWENDUNG IN DÜNNEN SCHICHTEN

Title (fr)

NOUVELLE MOUSSE AYANT UN COMPORTEMENT DE DILATATION AMÉLIORÉ LORS DE SON UTILISATION DANS DES COUCHES MINCES

Publication

**EP 3643738 A1 20200429 (EN)**

Application

**EP 18202601 A 20181025**

Priority

EP 18202601 A 20181025

Abstract (en)

Disclosed is a thermally expandable composition, comprising(a) at least one polymerP,cross-linkable by a free-radical initiator, and(b) at least one solid butyl rubberBR,and(c) at least one free-radical initiator, and(d) at least one blowing agent, and(e) at least one tackifierTA,whereby the cured expanded composition has a volume increase compared to the uncured composition of less than 1300%.The thermally expandable composition is able to provide good expansion behaviour and good adhesion on metal surfaces and is especially suitable for baffle and/or reinforcement elements, e.g. in automotive manufacturing.

IPC 8 full level

**C08J 9/00** (2006.01); **C08J 9/10** (2006.01); **C08L 15/02** (2006.01); **C08L 23/08** (2006.01); **C08L 31/02** (2006.01); **C08L 33/14** (2006.01)

CPC (source: EP US)

**C08J 9/0014** (2013.01 - EP); **C08J 9/0023** (2013.01 - EP US); **C08J 9/0061** (2013.01 - EP US); **C08J 9/0066** (2013.01 - EP US); **C08J 9/103** (2013.01 - EP US); **C08L 23/22** (2013.01 - EP US); **C08L 91/00** (2013.01 - EP); **C08J 2201/026** (2013.01 - EP US); **C08J 2203/04** (2013.01 - EP US); **C08J 2205/052** (2013.01 - EP US); **C08J 2207/00** (2013.01 - EP US); **C08J 2323/08** (2013.01 - EP US); **C08J 2331/04** (2013.01 - EP US); **C08J 2415/02** (2013.01 - EP US); **C08J 2423/08** (2013.01 - EP US); **C08J 2433/14** (2013.01 - EP US); **C08L 2203/14** (2013.01 - EP US)

C-Set (source: EP)

1. **C08L 23/22** + **C08L 23/0853** + **C08L 23/283** + **C08L 23/0853** + **C08K 5/01** + **C08K 3/26** + **C08K 5/14** + **C08K 5/23**
2. **C08L 91/00** + **C08L 23/0853** + **C08L 23/283** + **C08L 23/0853** + **C08K 5/01** + **C08K 3/26** + **C08K 5/14** + **C08K 5/23**

Citation (applicant)

- DE 102011080223 A1 20130207 - HENKEL AG & CO KGAA [DE]
- : "Rompp Chemie Lexikon", GEORG THIEME VERLAG

Citation (search report)

[XAI] US 2014030539 A1 20140130 - UI TAKEHIRO [JP], et al

Cited by

WO2023061807A1; EP4166601A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3643738 A1 20200429**; BR 112021006235 A2 20210706; CN 112912425 A 20210604; CN 112912425 B 20230428; EP 3870638 A1 20210901; JP 2022504120 A 20220113; JP 7476180 B2 20240430; US 2022056255 A1 20220224; WO 2020083811 A1 20200430

DOCDB simple family (application)

**EP 18202601 A 20181025**; BR 112021006235 A 20191021; CN 201980068807 A 20191021; EP 19786990 A 20191021; EP 2019078510 W 20191021; JP 2021518154 A 20191021; US 201917274862 A 20191021